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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/551,628	02/23/2007	Michael Dean	9664-0002	5460
73552 Stolowitz Ford	7590 08/25/200 Cowger LLP	EXAMINER		
621 SW Morris		TRAN, KHAI		
Suite 600 Portland, OR 97	7205		ART UNIT	PAPER NUMBER
			2611	
			MAIL DATE	DELIVERY MODE
			08/25/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Occurrence		Application	n No.	Applicant(s)				
		10/551,62	8	DEAN ET AL.				
	Office Action Summary	Examiner		Art Unit				
		KHAI TRA	N	2611				
 Period for	The MAILING DATE of this communicat Reply	tion appears on the	cover sheet with the c	orrespondence ad	ddress			
WHICH - Extensi after SI - If NO p - Failure Any rep	RTENED STATUTORY PERIOD FOR IEVER IS LONGER, FROM THE MAIL ons of time may be available under the provisions of 37 X (6) MONTHS from the mailing date of this communic eriod for reply is specified above, the maximum statuto to reply within the set or extended period for reply will, ly received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	ING DATE OF TH 7 CFR 1.136(a). In no ever action. Try period will apply and wi by statute, cause the appl	IS COMMUNICATION int, however, may a reply be tind the spire SIX (6) MONTHS from the ication to become ABANDONE	N. nely filed the mailing date of this of D (35 U.S.C. § 133).	•			
Status								
1)☑ 5	Responsive to communication(s) filed o	on 30 Sentember 2	005					
· <u> </u>		☐ This action is n						
'	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
•	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
	n of Claims	•						
· _		lication						
•	☐ Claim(s) <u>1-24</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
•	5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected.							
	Claim(s) is/are rejected.							
•	Claim(s) is/are objected to: Claim(s) <u>1-24</u> are subject to restriction a	and/or election red	uirement					
0)23 (naim(s) <u>1-24</u> are subject to restriction a	and/or election req	ullement.					
Applicatio	n Papers							
9)□ T	ne specification is objected to by the E	xaminer.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
Д	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority un	der 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some coll None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notice 3) Informa	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO- ation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	948)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate				

Application/Control Number: 10/551,628 Page 2

Art Unit: 2611

DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-11, drawn to a signal processing apparatus for receiving a signal indicative of a plurality of symbols transmitted, classified in class 375, subclass 316.
 - II. Claims 12-20, 21-24, drawn to a method of signal processing for a MIMO system, classified in class 375, subclass 349.
- 2. The inventions are distinct, each from the other because:

Inventions I, and II are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are claims 1-11, drawn to a signal processing apparatus for receiving a signal indicative of a plurality of symbols transmitted; claims 12-20, 21-24, drawn to a method of signal processing for a MIMO system.

- 3. Because these inventions are distinct for the reasons given above and have required a separate status in the art as shown by their different classification and by their recognized divergent subject matter, restriction for examination purposes as indicated is proper.
- 4. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be

Art Unit: 2611

traversed (37 CFR 1.143).

5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(I).

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to KHAI TRAN whose telephone number is (571)272-3019. The examiner can normally be reached on 7:00AM - 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Payne can be reached on (571) 272-3024. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

Application/Control Number: 10/551,628 Page 4

Art Unit: 2611

USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/KHAI TRAN/ Primary Examiner, Art Unit 2611

August 21, 2009